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In the Abstract:

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ABSTRACT OF THE DISCLOSURE

A ceramic envelope for a high intensity discharge lamp comprises: is provided,  
including a cylindrical barrel section 1 that forms forming an electric discharge light emitting  
space; and having annular closing sections 2, 2 that closeclosing both ends of the barrel  
section 1, respectively; and capillary sections 3, 3 that insert and fix an electric discharge  
electrode to be protrude outwardly protruded so as to be opposed to oppose each other from the  
substantial center of both of the closing sections. The envelope essentially consists of  
alumina, and is formed to have light transmission properties by adding MgO. Then, the  
thickness of the barrel section at the boundary between the barrel section 1 and the closing  
section 2 is formed to be increased in thickness by providing a tapered section 4a to the  
thickness in the vicinity of the center of an electric discharge light emitting space. In this  
way, there is provided Thus, a high emitting envelope for high intensity discharge lamp  
capable of extending the service life of the lamp can be provided, even if the electric  
discharge space is cylindrical.